

Japanese Utility Model Publication No. 44-14946

Publication date: 26 June 1969

Application No.: 42-39741

Filing Date: 12 May 1967

Applicant: KK Yoshino Kogyo-sho, Tokyo

Brief Description of the Drawings:

The drawings show an embodiment of the liquid applying receptacle according to the present invention, in which Fig. 1 is an elevation showing, in section, the essential parts of the receptacle, and Fig. 2 is a perspective view where the respective parts are shown separately in their associated states.

Releated disclosure:

The invention will be described more in detail, by way of embodiment, with reference to the accompanying drawings. An inside plug 3 communicating with a liquid guiding pipe 2 and suspended from said pipe is fit arranged in the opening surface of a receptacle main 1 for containing liquid, said receptacle being formed so as to be able to exhibit a recovering force with a suitable elastic material, an air hole 5 is arranged in adhesion at the tip of a cap body 4 tightly fitted with the opening outer peripheral flange of said receptacle, in such a state that a sponge body 6 being impregnated with liquid to be applied is separated in advance from a stepped bottom portion 7, said sponge body 6 being vertically perforated and consisting of a suitable material, a hole 10 also serving for the flow-in of air is bored to insert a vertical rod 9 for actuating valves 8, 8' in cooperation, which are positioned vertically at the center of said stepped bottom portion, orifices 11, 11 ... for passage of the liquid are bored in a range area capable of being closed by the falling

contact of said valve 8, externally about the hole 10, said valve 8 is provided with air orifices 12, 12...for passage of air, said orifices communicating with said air holes 5 and 10 when the valve 8 descends, and the hole 10 is completely closed when the valves 8, 8' rise in action.

Since the liquid applying receptacle of this invention is constructed as above, when the liquid is impregnated into the sponge body 6 for use of the receptacle 1, the containing liquid flows in the pipe 2 by pressing the receptacle 1 whereby it flows under pressure in the direction of the stepped bottom portion 7 of the cap body 4. At that time, the pressure of the valves 8, 8' increases, and the valve 8 releases the closure of the orifices 11, 11...for the communication with the liquid while the valve 8' closes the hole 10. Thus, the liquid under pressurized flowing passes through the orifices 11, 11...to impregnate the sponge body 6. Further, by releasing the receptacle from pressurization the valves 8, 8' descend by the air suction movement and the like by means of the recovering force of said receptacle whereby the orifices 11, 11...are blocked. However, the air needed for the recovery of the receptacle is introduced, without being sucked from the surface of said sponge body 6, via the air hole 5 disposed in the sponge body, the air orifices 12, 12...disposed in the valve 8 and the hole 10 disposed in the cap body, and therefore, the receptacle recovery exhibits such action as can be ensured. Accordingly, it is possible to accurately remove such conventional demerits as staining the receptacle in that the liquid once impregnated to the sponge body is sucked into the receptacle. Thus the present invention produces useful effects

in practice.

Claim:

An improvement in or relating to a liquid applying receptacle constructed such that an inside plug 3 communicating with a liquid guiding pipe 2 and suspended from said pipe is fit arranged in the opening surface of a receptacle main 1 for containing liquid, said receptacle being formed so as to be able to exhibit a recovering force with a suitable elastic material, an air hole 5 is arranged in adhesion at the top of a cap body 4 tightly fitted with the opening outer peripheral flange of said receptacle, in such a state that a sponge body 6 being impregnated with liquid to be applied is separated in advance from a stepped bottom portion 7, said sponge body 6 being vertically perforated and consisting of a suitable material, a hole 10 also serving for the flow-in of air is bored to insert a vertical rod 9 for actuating valves 8, 8' in cooperation, which are positioned vertically at the center of said stepped bottom portion, orifices 11, 11...for passage of the liquid are bored in a range area capable of being closed by the falling contact of said valve 8, externally about the hole 10, said valve 8 is provided with air orifices 12, 12...for passage of air, said orifices communicating with said air holes 5 and 10 when the valve 8 descends, and the hole 10 is completely closed when the valves 8, 8' rise in action.

⑩実用新案公報

④公告 昭和44年(1969)6月26日

(全2頁)

1

⑤液体塗布容器の改良

①実 願 昭42-39741
②出 願 昭42(1967)5月12日
⑦考 案 者 野沢孝光
東京都杉並区上荻2の17の10
⑧出 願 人 株式会社吉野工業所
東京都江東区大島3の2の6
代 表 者 吉野弥太郎
代 理 人 弁理士 渡辺軍治

図面の簡単な説明

図面は本案液体塗布容器の実施例に関するもので、第1図はこれの要部を切断して示す側面図、第2図はこれをそれぞれ関係状態のもとで分離して示す斜視図である。

考案の詳細な説明

本案は液体塗布用として容器口に配置せる適宜材質のスポンジ体に対し、容器押圧により含浸させた液体が容器の復元作用で収容液体内に吸入され、この収容液体を汚損するが如き欠点を除去するためとして、この種液体塗布容器に改良を加えた考案に関するものである。

以下これを実施するためとして例示せる図面にもとずき説明すると、適宜弾性材にて復元力を発揮し得るよう形成せしめた液体収納用の容器主体1の開口面に液体導出用のパイプ2を垂架連通設せる中栓3を嵌合配置し、かつ該容器の開口外周縁に密嵌するキャップ体4の頂部に空気孔5を予め縦貫穿孔せる液体含浸塗布用の適宜材質より成るスポンジ体6を底段部7と遊離した態様で接着配置し、さらに該底段部中央にこれの上下面方向に位置せしめた弁8、8'連作動用の垂直杆9を挿通するための空気流入用孔兼用の孔10を穿孔せしめると共に、この孔10を中心とした外方面にして、該弁8の降動接触により閉塞せしめ得るような範囲面に液体通流用の孔11、11……を穿設した上、前記弁8にこれの降動時、前記空気孔5と孔10とを連通するような空気孔12……

2

を設けて通気可能となし、しかも弁8、8'の昇動により孔10を完全に閉塞するよう配設装備して成る液体塗布容器が示されている。

しかして本案の液体塗布容器は前述の如き構成構造より成るものとしたから、すなわち液体をスポンジ体6に含浸使用するに際しては、容器1を押圧することで収納液体はパイプ2を通流し、キャップ体4の底段部7方向に圧流する。この時弁8、8'は昇圧され弁8は液体通流用の孔11、11……の閉塞を解除すると同時に弁8'は孔10を閉塞する。よつて圧流液体は孔11、11……を通過してスポンジ体6に含浸する。また、この容器圧押を解除することで、弁8、8'は容器復元力による吸気運動等により降下し、孔11、11……は閉塞される。しかるにこの容器復元に要する空気は、スポンジ体6の面より吸入することなく、このスポンジ体に設けた空気孔5、弁8に設けた空気孔12、12……及びキャップ体に設けた孔10等を介して導入されるので、この容器復元は適確に期し得る等の作用を発揮し、従つてスポンジ体に一旦含浸せる液体が容器内に吸入されて汚損するかの如き従来欠点を適確に防止する等の実用上有益な効果を有するものである。

実用新案登録請求の範囲

適宜弾性材にて復元力を発揮し得るよう形成せしめた液体収納用の容器主体1の開口面に液体導出用のパイプ2を垂架連通設せる中栓3を嵌合配置し、かつ該容器の開口外周縁に密嵌するキャップ体4の頂部に空気孔5を予め縦貫穿孔せる液体含浸塗布用の適宜材質より成るスポンジ体6を底段部7と遊離した態様で接着配置し、さらに該底段部中央にこれの上下面方向に位置せしめた弁8、8'連作動用の垂直杆9を挿通するための空気流入用孔兼用の孔10を穿孔せしめると共に、この孔10を中心とした外方面にして該弁8の降動接触により閉塞せしめ得るような範囲面に液体通流用の孔11、11……を穿設した上、前記弁8にこれの降動時、前記空気孔5と孔10とを連通するような空気孔12……を設けて通気可能とな

3

4

し、しかも弁8、8'の昇動により孔10を完全に閉塞するよう配設装備して成る液体塗布容器の

改良。

図1

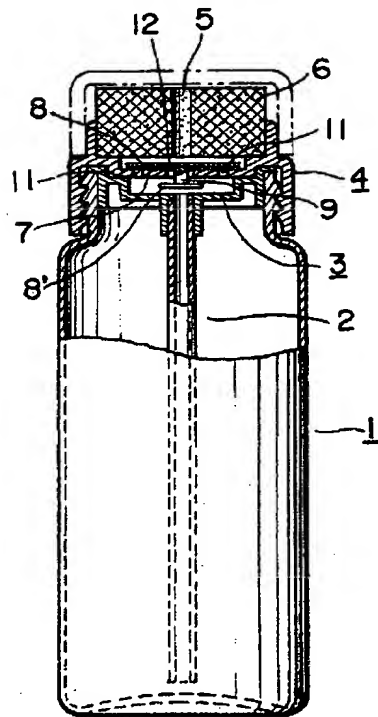


図2

